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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,789	07/23/2003	Richard Fletcher	056754/0124941	9001
7590	10/19/2005		EXAMINER	
Norma E. Henderson Hinckley, Allen & Snyder LLP 43 North Main Street Concord, NH 03301-4934				LEE, SEUNG H
			ART UNIT	PAPER NUMBER
			2876	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/625,789	FLETCHER ET AL.
	Examiner	Art Unit
	Seung H. Lee	2876

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 01 August 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-50 is/are pending in the application.
- 4a) Of the above claim(s) 16-24 and 40-48 is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-10, 12-15, 25-34, 36-39, 49 and 50 is/are rejected.
- 7) Claim(s) 11 and 35 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date: _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/23/2003</u> . | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

1. Applicant's election without traverse of Group II (claims 1-15 and 25-39) in the reply filed on 01 August 2005 is acknowledged.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-10, 12-15, 25-34, 36-39, 49, and 50 are rejected under 35 U.S.C. 102(b) as being anticipated by Ekchian et al. (US 4,862,160, cited by an applicant)(hereinafter referred to as 'Ekchian').

Re claims 1, 2, 25, 26, 49, and 50: Ekchian teaches an inventory data acquisition system comprising a plurality of items (20) having tags (22) wherein property of tags can be determined using frequencies (F1 and F2) serving as reference frequency transmitted by the microcomputer (16), a third frequency (F3) serving as resonant frequency measured by interacted with tags, the microcomputer determines the total number of units using F1, F2 and F3 (see figs. 1-13; Abstract; col. 3, line 8-col. 7, line 33; Claims 1-4),

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Re claims 3, 4, 27, and 28: The tag comprises six interleaved conductive arms (34, 36, 38, 40, 42, and 44) wherein property or the corresponding frequency of each tag are differed according to the length of the corresponding arms, the each arm of the tags serves as resonant elements,

Re claims 5, 6, 29, and 30: The unit with same SKU has identical tags representing same items, whereas different item with different SKU has different tags,

Re claims 7-9, 31-33: The tags are affixed to a removable item wherein the item is arranged in a stack wherein a customer/a worker can picked/removed the item from the stack, in which the plurality of items in the stack have a substantially equal spacing as shown in figure 1,

Re claims 10, 12, 34, and 36: The number of tags can be determined using signal strength or monotonic function of the frequencies of the signal wherein such determining function also serves as a regression-fit function that is determined by empirical measurement of the numbers of tags with same tags or same frequency accordingly (see col. 5, line 37- col. 7, line 3, claims 1 and 3),

Re claims 13-15 and 37-39: The arbitrary numbers of items with tag are tested for ascertain the property of the tags wherein such properties are corresponding frequency.

Allowable Subject Matter

4. Claims 11 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. The following is a statement of reasons for the indication of allowable subject matter:

Although, Ekchian disclose to determine the total number of items using tags affixed to the item thereon according to the frequencies, he fails to particularly teach or fairly suggest that the total number of tags can be determined using an inductance, a reference frequency, a resulting resonant frequency, and a mutual inductance between the individual tags as set forth in the claims.

Additional Remarks

6. Since claims 49 and 50 are now the generic claims of species of Group I and Group II as indicted by the applicant (see page 8 of response filed on 01 August 2005), claims in non-elected Group II will be allowed upon allowance of the generic claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Otto (US 6,732,923) discloses a radio frequency identification system for identifying item using RFID labels,

Muller (US 6,639,514) discloses RFID transponders for identifying items using resonant frequency.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seung H. Lee whose telephone number is (571) 272-2401. The examiner can normally be reached on Monday-Friday, 7:30 AM- 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Seung H. Lee
Art Unit 2876
October 14, 2005